



SAFETY DATA SHEET

ANIONIC ASPHALT EMULSION

SECTION 1: IDENTIFICATION

Product identifier	Talley Oil Anionic Asphalt Emulsion
Other means of identification	SS-1h, SS-1; slow-setting anionic asphalt emulsion; tack coat; fog seal
Recommended use	Pavement preservation, fog sealing, tack coating, dust suppression, and other industrial roadway applications.
Restrictions on use	For industrial and commercial use. Do not use for applications inconsistent with the applicable product specification.
Manufacturer	Talley Oil, Inc.
Address	12483 Road 29, Madera, California 93638
Telephone	(559) 673-9011
Email	info@talleyoil.com
Website	www.talleyoil.com
Emergency telephone	911 for immediate medical or fire emergencies; (559) 673-9011 for emergencies through dispatch.

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/Cal/OSHA classification	The finished mixture does not meet the criteria for classification as a hazardous chemical based on currently available information.
Signal word	None.
Hazard pictogram(s)	None.
Hazard statement	The mixture does not meet the criteria for classification.
Hazards not otherwise classified	Heated product can cause severe thermal burns. Asphalt fumes and hydrogen sulfide may be released when the product is heated or stored in enclosed spaces. Heating above the boiling point of water may cause foaming, splattering, or violent overflow.

Precautionary statements

- Wear protective gloves, protective clothing, and eye/face protection when splashing or contact with heated product is possible.
- Avoid breathing fumes, vapors, or mist generated during heating, spraying, tank opening, or confined-space work.
- Do not enter tanks or confined spaces without atmospheric testing and an appropriate confined-space entry procedure.
- Do not rely on odor to detect hydrogen sulfide; olfactory fatigue can occur rapidly.
- Wash thoroughly after handling. Protect product from freezing and avoid overheating.
- Dispose of contents and container in accordance with applicable regulations.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Petroleum asphalt	8052-42-4	55-65%
Water	7732-18-5	35-45%
Proprietary Ingredients	N/A	<5%

SECTION 4: FIRST-AID MEASURES

Inhalation	Move person to fresh air. Keep at rest in a position comfortable for breathing. Obtain medical attention if symptoms develop or persist. If hydrogen sulfide exposure is suspected, remove the person only if it can be done safely and obtain emergency medical assistance.
Skin contact - unheated product	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Obtain medical attention if irritation develops or persists.
Skin contact - heated product	Immediately cool with large quantities of clean water. Do not attempt to remove asphalt adhered to the skin and do not use solvents. Do not remove clothing that is stuck to the skin. Cover loosely with a clean dressing and obtain immediate medical attention.
Eye contact	Immediately flush with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists. Hot-material eye exposure requires immediate emergency care.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical advice if a large amount is swallowed or symptoms occur.
Most important symptoms/effects	Eye or skin irritation; respiratory irritation from heated fumes or mist; thermal burns from hot product. High hydrogen sulfide concentrations can rapidly cause collapse, respiratory arrest, and death.
Immediate medical attention	Thermal burns and suspected hydrogen sulfide exposure require prompt medical evaluation. Treat symptomatically and supportively.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam, dry chemical, carbon dioxide, or water fog for cooling exposed containers.
Unsuitable extinguishing media	Do not direct a solid water stream onto burning asphalt residue. Water applied to hot asphalt can cause frothing or splattering.
Specific hazards	As supplied, this water-based emulsion is not expected to sustain combustion. After water evaporates, the asphalt residue may burn. Combustion or thermal decomposition may produce carbon monoxide, carbon dioxide, sulfur oxides, hydrogen sulfide, smoke, and irritating organic vapors.
Protective equipment	Firefighters should use standard protective equipment including flame retardant clothing, helmet with face shield, gloves and rubber boots. Approach from upwind and cool exposed tanks or containers with water fog if on fire. Do not breathe fumes.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Keep unnecessary personnel away. Ventilate enclosed areas before entry. Avoid contact with hot material and wear appropriate PPE. Spilled emulsion creates a significant slip hazard.
Containment and cleanup	Stop the release if it can be done safely. Dike with earth, sand, or other noncombustible material. Recover free liquid where practicable. Absorb small amounts with inert material and place in suitable containers.
Environmental precautions	Prevent entry into storm drains, sewers, unintended soil, surface water, and waterways. Report releases as required by applicable authorities.
Decontamination	After bulk material is removed, clean affected surfaces using methods compatible with the site and wastewater controls. Do not flush concentrated product to drains.

SECTION 7: HANDLING AND STORAGE

Safe handling	Avoid unnecessary skin and eye contact. Avoid breathing heated fumes, vapors, or spray mist. Keep face and body clear of tank openings. Use appropriate bonding/grounding practices where required by the operation.
Heating precautions	Do not add water to hot asphalt residue. Avoid rapid heating and temperatures above the boiling point of water. Heating can cause foaming, splattering, or overflow.
Storage conditions	Store in clean, closed, compatible containers. Protect from freezing. Maintain only the temperature needed for pumping and application; typical handling range is ambient to 185°F (85°C). Provide ventilation at tank vapor spaces.
Incompatible materials	Strong oxidizing agents, strong acids, and materials that destabilize anionic emulsions, including certain multivalent salts, cement, or lime.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Substance	Limit	Source
Asphalt fumes	0.5 mg/m ³ TWA, inhalable fraction	ACGIH TLV (guideline)
Asphalt fumes	5 mg/m ³ ceiling, 15 minutes	NIOSH REL
Hydrogen sulfide	Consult current applicable limits and site procedures	OSHA/Cal/OSHA/NIOSH

Engineering controls	Use adequate general ventilation. Provide local exhaust where heated fumes or mist may be generated. Test tank vapor spaces and confined spaces before entry. Provide eyewash and emergency shower facilities where splashing or hot-product exposure is possible.
Eye/face protection	Safety glasses with side shields for routine transfer. Use chemical splash goggles and a face shield when splash or hot-product exposure is possible.
Hand protection	Wear gloves selected for the task and temperature. Use heat-resistant gloves when handling hot equipment or product.
Skin/body protection	Long sleeves, long pants, and suitable footwear. Use chemical-resistant or heat-



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	resistant protective clothing as the exposure requires.
Respiratory protection	Normally not required for ambient closed-system handling. Where ventilation is insufficient or exposure may exceed applicable limits, use a NIOSH-approved respirator selected under a compliant respiratory-protection program. Supplied-air respiratory protection may be required for hydrogen sulfide or oxygen-deficient atmospheres.
Hygiene	Wash after handling and before eating, drinking, smoking, or using tobacco. Launder contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown to black liquid
Odor	Mild petroleum/asphalt odor
Odor threshold	Not determined
pH	8-10
Melting/freezing point	Approximately 32°F (0°C); protect from freezing
Initial boiling point/range	Approximately 212°F (100°C), water phase
Flash point	Not applicable to the water-based mixture; asphalt residue may burn after water evaporation
Evaporation rate	Not determined
Flammability	Not classified as flammable
Flammable/explosive limits	Not applicable
Vapor pressure	Primarily that of water
Vapor density	Not determined
Density/specific gravity	8.4-8.8 lbs/gal or 1.01–1.05 SG
Solubility	Dispersible in water before the emulsion breaks
Partition coefficient	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Product-specific; refer to certificate of analysis or product specification

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No hazardous reaction is expected under normal conditions of use, storage, and transport.
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Chemical stability	Stable under recommended conditions. Protect from freezing and overheating.
Hazardous reactions	Hazardous polymerization is not expected. Contamination with incompatible materials may break or destabilize the emulsion.
Conditions to avoid	Freezing, excessive heat, rapid heating, contamination, and prolonged storage at unnecessary elevated temperature.
Incompatible materials	Strong oxidizers, strong acids, and emulsion-breaking contaminants.
Hazardous decomposition	Carbon monoxide, carbon dioxide, sulfur oxides, hydrogen sulfide, smoke, and low-molecular-weight hydrocarbons may be generated by combustion or severe overheating.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely routes of exposure	Skin and eye contact; inhalation of mist or fumes generated during heating or spraying; ingestion is an unlikely occupational route.
Acute effects	Contact may cause temporary skin or eye irritation. Heated product causes thermal burns. Heated fumes or mist may irritate the respiratory tract.
Acute toxicity	Not available.
Skin corrosion/irritation	Not classified based on available information. Prolonged or repeated contact may cause irritation or dermatitis in susceptible individuals.
Serious eye damage/irritation	Not classified based on available information. Direct contact may cause temporary irritation. Hot product can cause severe injury.
Sensitization	Not classified based on available information.
Germ-cell mutagenicity	Not classified based on available information.
Carcinogenicity	The finished mixture is not classified as carcinogenic under OSHA HazCom based on currently available information. IARC has classified occupational exposures to straight-run bitumens and their emissions during road paving as Group 2B (possibly carcinogenic to humans); this does not automatically classify the finished water-based emulsion.
Reproductive toxicity	Not classified based on available information.
STOT - single/repeated exposure	Not classified based on available information.
Aspiration hazard	Not classified. The product is a water-based emulsion and is not expected to meet aspiration-hazard criteria.
Other information	Hydrogen sulfide may accumulate in enclosed vapor spaces. Odor is not a reliable warning because smell can be rapidly fatigued.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be harmful to aquatic organisms. Large releases may physically coat aquatic organisms or habitats.
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Aquatic Crustacea EC50	Species: Daphnia Test Results: 57650 mg/l, 48 hours estimated
Persistence/degradability	The water phase will dissipate or evaporate. Asphalt residue is expected to persist and degrade slowly.
Bioaccumulative potential	No product-specific data available.
Mobility in soil	Limited after the emulsion breaks and the asphalt residue cures.
Other adverse effects	Avoid uncontrolled release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Product disposal	Dispose of unused product, absorbed spill material, and residue in accordance with federal, state, and local requirements. Characterize waste at the time of disposal.
Container disposal	Empty containers may retain residue. Do not cut, weld, drill, grind, or expose containers to heat or ignition sources unless properly cleaned and made safe. Recycle or dispose through an approved facility.
Sewer/water disposal	Do not discharge concentrated product to storm drains, sewers, soil, or natural waters.

SECTION 14: TRANSPORT INFORMATION

Mode	Classification	Description
U.S. DOT	Not regulated	Not regulated as a hazardous material or dangerous good as shipped in the water-based emulsion form.
IATA	Not regulated	Not regulated as dangerous goods.
IMDG	Not regulated	Not regulated as dangerous goods.

SECTION 15: REGULATORY INFORMATION

OSHA/Cal/OSHA	Prepared using the section order and minimum information framework of 29 CFR 1910.1200 Appendix D and California Title 8 section 5194.
TSCA	All intentionally added ingredients are expected to be listed on, or exempt from, the U.S. TSCA Inventory. Supplier verification should be retained in the product file.
SARA 302	Not regulated.
SARA 311/312	Finished mixtures are not classified as hazardous under OSHA HazCom.
SARA 313	Not regulated.
California Proposition 65	Asphalt fumes generated during certain high-temperature operations may contain substances listed by the State of California. Evaluate the need for a Proposition 65 warning based on actual use, exposure, and current OEHHA requirements.



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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Document title	Talley Oil Anionic - SDS
Revision	7.20.26.2
Preparation date	July 20, 2026
Supersedes	December 2, 2022 Talley Oil SS-1h SDS
Prepared for	Talley Oil, Inc.
Key sources	Talley Oil formulation information; ; OSHA 29 CFR 1910.1200 Appendix D; California Title 8 section 5194.
Disclaimer	The information is believed to be accurate as of the preparation date and is provided for workplace health, safety, environmental, and regulatory guidance. Talley Oil makes no warranty regarding completeness or suitability for a particular use.